C2 SYSTEMS OVERVIEW



MSTP

FOR NETWORK ADMINISTRATORS



UPDATED: 011228

PURPOSE



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To provide an understanding of various C2 systems, what they will do for you and give an appreciation of the effort and skills required to implement and maintain them.

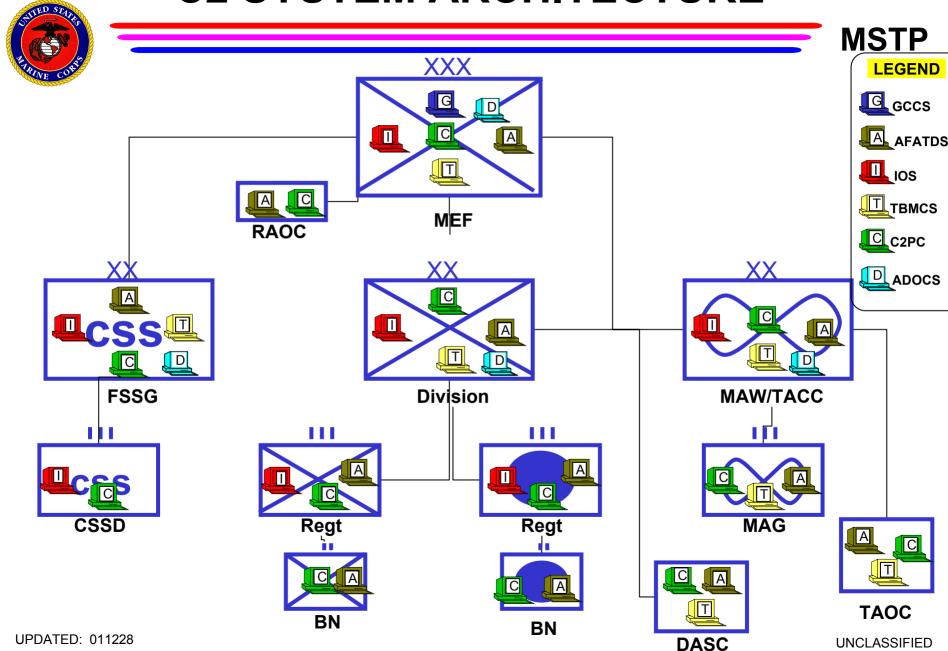
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C2 SYSTEMS



- Systems of Record
 - MARCORSYSCOM
- Current Generation
 - Work
 - Achieving Interoperability
- C2 Systems We'll Cover:
 - Intelligence Operations Server v1 & v2 (IOSv1/v2)
 - Command & Control Personal Computer (C2PC)
 - Advanced Field Artillery Tactical Data System (AFATDS)
 - Automated Deep Operations Coordination System (ADOCS)
 - Theater Battle Management Core Systems (TBMCS)

C2 SYSTEM ARCHITECTURE



IOS v1 & v2





IOS v1 & v2



- V1 = <u>Operations</u> component of the MAGTF C4I software baseline
- V2 = <u>Intelligence</u> component of the MAGTF C4I software baseline
- Provides the ability to receive, fuse, select and display information both threat and friendly from many sources, and disseminate selected information throughout the battlespace
- Specs:
 - Sun Netra T1125
 - Two 36 GB Ultra-SCSI HD
 - Two 440 MHZ CPU(s) Ultra-Sparc-II
 - 1 GB RAM
 - Solaris 2.5.1





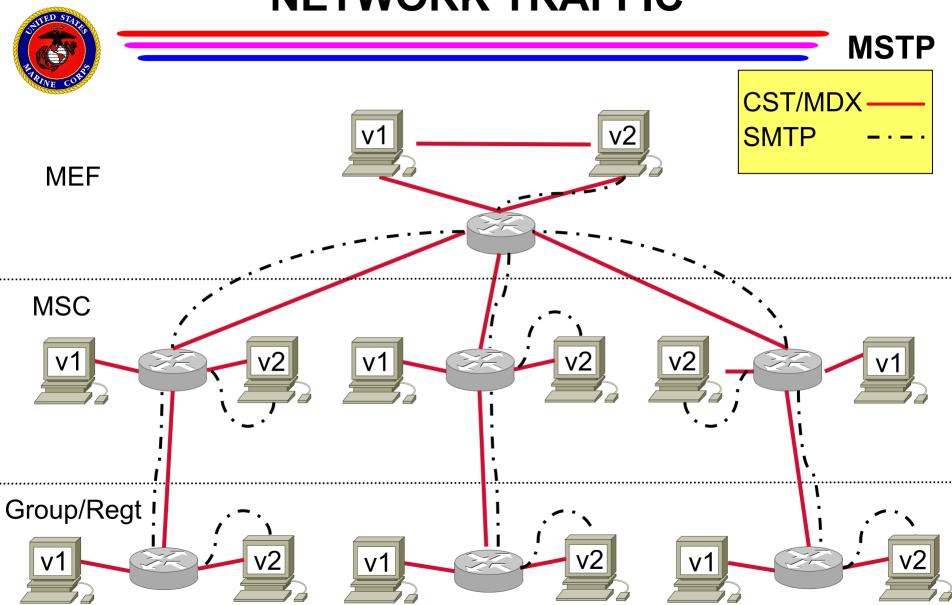
CAPABILITIES



- COP/CIP
 - TDBM
 - MIDB
- Mail Server
- Web Server
- Chat Server
- DNS
- Go-Global X-Server (For remote windowing)
- Interfaces with
 - GCCS
 - AFATDS
 - TBMCS



NETWORK TRAFFIC



C2PC

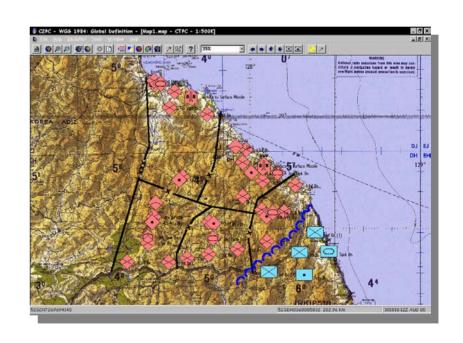




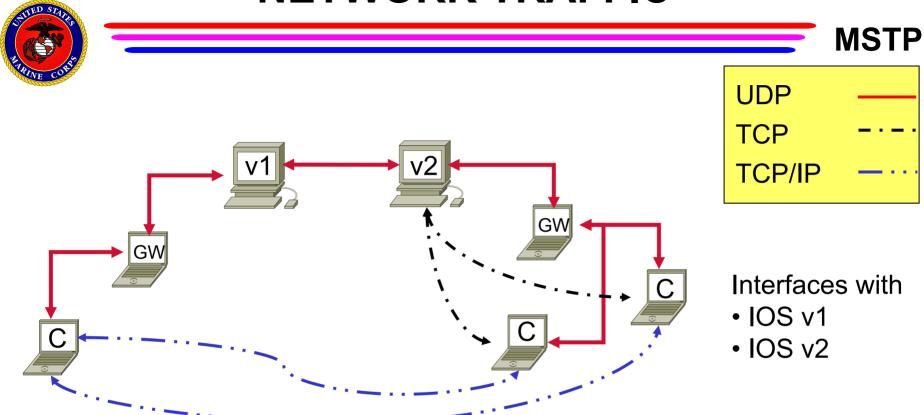
COMMAND & CONTROL PC



- Client software for IOS
- Provides the Commander the ability to display the CTP
- Ability to display Operational Graphics
 - Overlays
 - Routes
- Allow access, query, and display of the MIDB
 - Intel Client
- System Requirements
 - Windows NT/2000
 - 128 MB RAM
 - 400 MHz Processor
 - 2 GB free HD space



NETWORK TRAFFIC



30 second broadcasts (UDP)

- IOS to GW
- GW to Client

AFATDS



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Advanced Field Artillery Tactical Data System



ATTRIBUTES



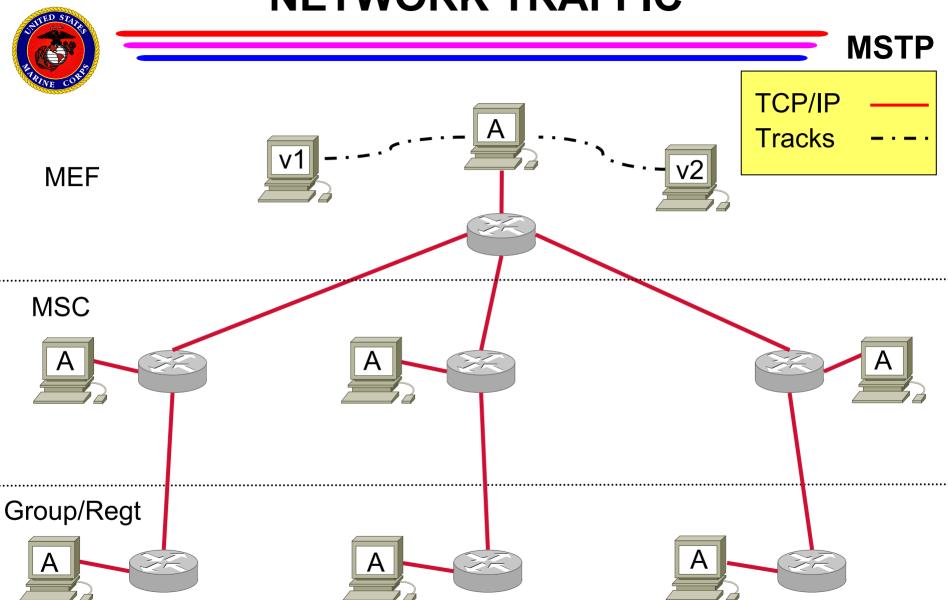
- Fire Support component of the MAGTF C4I software baseline
- A multi-service automated Command & Control System designed for Fire Support Operations that Integrates Fire Support Coordination with Tactical Fire Direction
- AFATDS Provides
 - Integrated responsive and reliable fire support
 - A means to input detailed attack guidance and criteria
 - Display & dissemination of current friendly and enemy situations
 - A database which supports continuity of operations
 - Interface with local and wide area networks
- Specs:
 - Sun Ultra Sparc-II
 - Two 36 GB Ultra-SCSI HD
 - 440 MHZ CPU Ultra-Sparc-II
 - 1 GB RAM
 - Solaris 7

FUNCTIONALITY



- Fire Support Planning
- Fire Support Execution
- Fire Support Coordination
- Movement Control
- Unit Management & Logistics
- Situational Awareness
- Can interface with:
 - IOS v1
 - IOS v2
 - TBMCS
 - GCCS

NETWORK TRAFFIC



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ADOCS



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Automated Deep Operations Coordination System



ADOCS

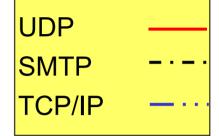


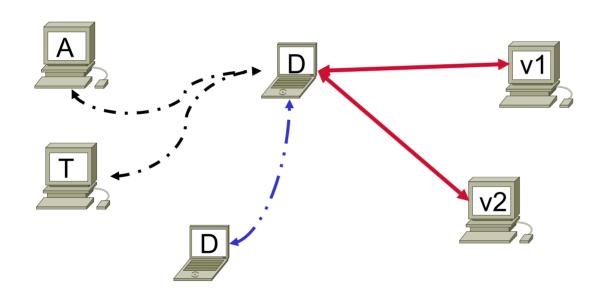
- Provides an integrated set of tools
 - Data management
 - Analysis
 - Mission planning
 - Coordination
 - Execution
 - Targeting
 - Fire Support
 - Intelligence
- System Requirements
 - Windows NT/2000
 - 128 MB RAM
 - 4 GB Free HD space
 - 500 MHz Processor

NETWORK TRAFFIC



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Interfaces with

- IOS v1
- IOS v2
- AFATDS
- TBMCS

TBMCS



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THEATER
BATTLE
MANAGEMENT
CORE
SYSTEMS

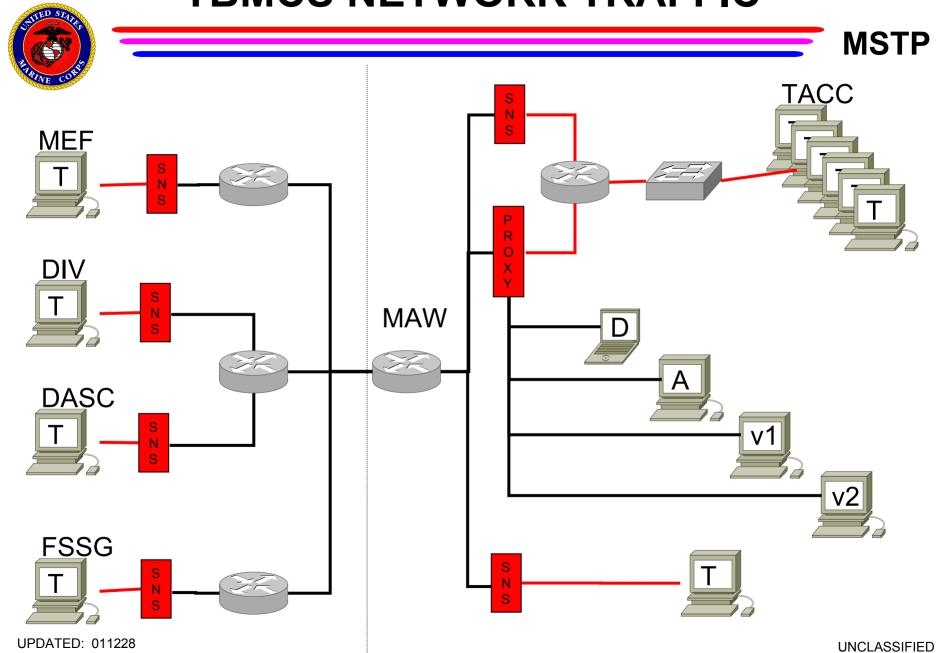


TBMCS



- Joint-mandated aviation planning and execution system that provides computer-supported management of theater airborne assets in peacetime, exercise, and wartime environments at the force and unit levels.
- Provides
 - ATO and ACO production
 - Air Battle planning and execution
 - Manage and de-conflict Airspace
 - Targeting & Weaponeering
 - Target development
 - Battle Damage Assessment
- Specs x6
 - Ultra-Sparc II
 - Dual 450 MHz
 - Smartstor 7 raid
 - 18 GB HDs
 - 1 GB RAM

TBMCS NETWORK TRAFFIC



NETWORK CONCERNS



- IOS v1 & v2
 - Separate VLAN
- C2PC
 - Gateway for each VLAN
- AFATDS
 - Permanent IP before building
 - Same VLAN as IOS (if possible)
- TBMCS
 - VPN
 - Safe-net switch
 - Proxy server